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Polaris Submarine Program Is Ending Today

By HANSON W. BALDWIN

tion program that has revolutionized sea power and change the dimensions of strategy will be marked today in a ceremony at Groton, Conn.

Mrs. Hubert H. Humphrey the wife of the Vice President will christen, at the yard of the electric Boat Divison of the General Dynamics Corporation the 41st and last of the nation's Polaris ballistic missile subma

The launching culminates an eight-and-a-half-year construc tion program that has mate nuclear - powered submarines capable of indefinite submerg ence, to 2,500-mile missiles with nuclear warheads capable of devastating any area on earth The launching of the Wil

Rogers-named for the lariat twirling cowboy-humorist wh was born in the Indian Terri tory, now Oklahoma-is the cul mination of a program tha started with a National Securit Council recommendation in 1955

It is a program that ha transformed the submarine from a destroyer of commerce an undersea marauder to a majo strategic threat to any natio on earth. The Polaris missile ha become a key part of the Unite States deterrent to nuclear wa and sea power for the first tim in history has extended its reac to the innermost land-locke fastnesses of the world's cont

Each of the 41 Polaris sub marines carries 16 missiles which can be launched while the submarine is submerge. The total number of sea-based nuclear-tipped missiles carried by all of the Polaris ships with the response to 65°C. therefore be 656.

The 41 submarines are three classes. The first five the George Washington class displace 6,700 tons submerge and were equipped to fire original 1,200 nautical mile A

to Be Christened at Groton Ceremony by Mrs. Humphre

Polaris missile. which have been at sea evsince 1961 have been, or are b ing, refitted to launch the 2,50 nautical-mile A-3 missile.

The Ethan Allen class of five submarines displaces 6,900 tor submerged, and carries /the 500-nautical-mile A-2 Polar missile. The rest of the Polar fleet of the Lafayette class ships—are the largest subm rines in the world. They displa 8,250 tons submerged, and ha a crew of about 140.

The first eight of this cla carry the A-2 missile; the re the A-3. In addition to missile all of the Polaris submarin-mount 4 or 6 bow torpedo tube Thus, of the 41 ships, 28 w mount the long-range Polaris, the 1,500-mile version. But wi minor changes all of them c launch the A-3 version.

Modifications Possible

In fact, all of the Polaris su marines are fitted with launce ing tubes that can be modified without major change, to a commodate the much larger I seidon, or C-3 missile, now u der development and tentative scheduled for operational rea ness in the nineteen-seventie

The Poseidon will be about feet in diameter, as opposed the four and a half feet of polis. It will be three feet long than the 31-foot A-3. It can c ry about twice the payload nuclear explosives, or probably warhead of two to three meg ton capacity and may also car penetration aids, or radar decoys to enable it to evade emy defenses.

It is expected to be twice accurate as the A-3, so the

41st Vessel, Last of Series Poseidon's effectiveness against a hardened, or protected target will be about eight times greater than the A-3.

This fleet of nuclear-powered submarines armed with ballistic missiles, has established a record for dependability and reliability probably unmatched by any other weapons system. Ever since 1960, when the George Washington successfully launched her first two ballistic missiles from a submerged position off Florida the submarine have maintained continuous sub-merged patrols of 57 to 60 days each, alternately manned by one of two crews—a Blue crew and a Gold crew.

More than 264 operational pa trols in sea areas within firing range of Communist target have been conducted in the At lantic, the Mediterranean an the Pacific to June 1, 1966, and as far as is known, no Polari submarine ever has been suc cessfully tracked by Sov ships, submarines or planes. Sovie

Each submarine so far de ployed has maintained 15 mis siles ready to fire 99.9 per cen of the time and all 16 missile ready to fire 98.1 per cent of the time. Every patrol and deployment commitment has been me on time; there have been no can cellations or postponements be cause of failures of missiles submarines, or crews.

About two-thirds of the Polaris submarines will norma ly be on station at any on time, operating from advance bases at Holy Loch, Scotland Rota, Spain, and Apra, Guan This fleet is unmatched in qua ity or quantity by any other power.

Britain is building, with hel from the United States, fou similar missile submarines. Th French plan several simila craft. China has one missile firing submarine, with three launchers, in commission, but s t far with no missiles.